

WHAT IS CLAIMED IS:

1. (currently amended) A cleaning tool for a vacuum cleaning device, the cleaning tool comprising:

a housing having a bottom plate provided with a working slot;

a rotatingly driven working tool rotatably supported in the housing and passing through the working slot so as to act on a surface to be cleaned;

a motor arranged in the housing and having a motor shaft;

a gear system connected between the motor and the working tool, wherein the gear system has a driving wheel driven by the motor shaft and a driven wheel fixedly connected to the working tool;

wherein the driving wheel and the driven wheel are V-belt pulleys and have a peripheral groove, respectively;

wherein the gear system further comprises a V-gear positioned between the driving wheel and the driven wheel, wherein the V-gear has an outer periphery that engages the peripheral grooves for establishing a driving connection between the driving wheel and the driven wheel;

wherein at least one of the V-gear and one of the driving and driven wheels are movable relative to one another;

wherein the driving wheel has a first rotary center point and the driven wheel has a second rotary center point, wherein the first and second rotary center points define a connecting line, and wherein a rotary center point of the V-gear is positioned at a spacing from the connecting line;

wherein the first and second rotary center points are fixed at the housing and wherein the V-gear is movable into a gap between the driving wheel and the driven wheel;

a pivot arm, wherein the V-gear is secured on the pivot arm, and wherein a maximum pivot stroke of the pivot arm is limited by a stop.

2. (original) The cleaning tool according to claim 1, wherein the outer periphery of the V-gear is elastic.

3. (original) The cleaning tool according to claim 2, wherein the outer periphery is comprised of an elastic V-belt ring.

4. (original) The cleaning tool according to claim 3, wherein the V-gear has

a base member and the V-belt ring has a trapezoidal cross-section having a long base and a short base, wherein the long base is secured on the base member.

5. (currently amended) The cleaning tool according to claim 16 [[1]], wherein at least one of the V-gear and one of the driving and driven wheels are movable relative to one another.

6. (currently amended) The cleaning tool according to claim 11 [[5]], wherein the driving wheel has a first rotary center point and the driven wheel has a second rotary center point, wherein the first and second rotary center points define a connecting line, and wherein a rotary center point of the V-gear is positioned at a spacing from the connecting line.

7. (original) The cleaning tool according to claim 6, wherein the first and second rotary center points are fixed at the housing and wherein the V-gear is movable into a gap between the driving wheel and the driven wheel.

8. (original) The cleaning tool according to claim 7, further comprising a pivot arm, wherein the V-gear is secured on the pivot arm, and wherein a maximum pivot stroke of the pivot arm is limited by a stop.

9. (original) The cleaning tool according to claim 7, wherein the V-gear is loaded by a contacting force into the gap between the driving and driven wheels.

10. (original) The cleaning tool according to claim 9, wherein the contacting force at least one of a weight force and a spring force.

11. (currently amended) ~~The A cleaning tool according to claim 5, for a vacuum cleaning device, the cleaning tool comprising:~~

a housing having a bottom plate provided with a working slot;

a rotatably driven working tool rotatably supported in the housing and passing through the working slot so as to act on a surface to be cleaned;

a motor arranged in the housing and having a motor shaft;

a gear system connected between the motor and the working tool, wherein the gear system has a driving wheel driven by the motor shaft and a driven wheel fixedly connected to the working tool;

wherein the driving wheel and the driven wheel are V-belt pulleys and have a peripheral groove, respectively;

wherein the gear system further comprises a V-gear positioned between the driving wheel and the driven wheel, wherein the V-gear has an outer periphery that engages the peripheral grooves for establishing a driving connection between the driving wheel and the driven wheel;

wherein at least one of the V-gear and one of the driving and driven wheels are movable relative to one another;

wherein the driven wheel is movable relative to an axis of rotation of the V-gear.

12. (original) The cleaning tool according to claim 4, wherein the V-gear has a base member that is disc-shaped and has an axial thickness matching approximately a thickness of a base area of the elastic V-belt ring.

13. (original) The cleaning tool according to claim 12, wherein the V-belt ring is comprised of a polyurethane mixture.

14. (original) The cleaning tool according to claim 12, wherein the V-belt ring has tension cords comprised of fabric.

15. (currently amended) ~~The A~~ cleaning tool ~~according to claim 4, for a vacuum cleaning device, the cleaning tool comprising:~~

a housing having a bottom plate provided with a working slot;

a rotatably driven working tool rotatably supported in the housing and passing through the working slot so as to act on a surface to be cleaned;

a motor arranged in the housing and having a motor shaft;

a gear system connected between the motor and the working tool, wherein the gear system has a driving wheel driven by the motor shaft and a driven wheel fixedly connected to the working tool;

wherein the driving wheel and the driven wheel are V-belt pulleys and have a peripheral groove, respectively;

wherein the gear system further comprises a V-gear positioned between the driving wheel and the driven wheel, wherein the V-gear has an outer periphery that engages the peripheral grooves for establishing a driving connection between the driving wheel and the driven wheel;

wherein the working tool comprises a changing carrier and wherein the

working tool is detachably secured with the changing carrier at the housing.

16. (currently amended) ~~The A cleaning tool according to claim 1, for a vacuum cleaning device, the cleaning tool comprising:~~

a housing having a bottom plate provided with a working slot;

a rotatingly driven working tool rotatably supported in the housing and passing through the working slot so as to act on a surface to be cleaned;

a motor arranged in the housing and having a motor shaft;

a gear system connected between the motor and the working tool, wherein the gear system has a driving wheel driven by the motor shaft and a driven wheel fixedly connected to the working tool;

wherein the driving wheel and the driven wheel are V-belt pulleys and have a peripheral groove, respectively;

wherein the gear system further comprises a V-gear positioned between the driving wheel and the driven wheel, wherein the V-gear has an outer periphery that engages the peripheral grooves for establishing a driving connection between the driving wheel and the driven wheel;

wherein a depth of the peripheral groove of at least one of the driving and driven wheels is greater than an engagement depth of the outer periphery of the V-gear.

17. (new) The cleaning tool according to claim 16, wherein the outer periphery of the V-gear is elastic.

18. (new) The cleaning tool according to claim 17, wherein the outer periphery is comprised of an elastic V-belt ring.

19. (new) The cleaning tool according to claim 18, wherein the V-gear has a base member and the V-belt ring has a trapezoidal cross-section having a long base and a short base, wherein the long base is secured on the base member.

20. (new) The cleaning tool according to claim 19, wherein the V-gear has a base member that is disc-shaped and has an axial thickness matching approximately a thickness of a base area of the elastic V-belt ring.